

U.S. EPA Science Advisory Board

Advisory Panel on the Environmental Economics Research Strategy

FY 2004 Member Biosketches

Advisory Panel on the Environmental Economics Research Strategy

Burtraw, Dallas

Resources for the Future

Dr. Burtraw is a Senior Fellow at Resources for the Future. He holds a Ph.D. in Economics and a Master in Public Policy from the University of Michigan. He currently serves on the National Research Council, Committee on Air Quality Management in the United States. Dr. Burtraw's areas of expertise include: air pollution, cost-benefit analysis, electricity restructuring, regulatory design, and public finance. His research interests include the restructuring of the electric utility market, the social costs of environmental pollution, benefit-cost analyses of environmental regulation, and the design of incentive-based environmental policies. His current projects include the study of integrated approaches to pollutant control in the electricity sector and the valuation of natural resource improvements in the Adirondacks. Recently, Dr. Burtraw analyzed the cost-effectiveness of various designs for NOX emission trading in the eastern states and of the design for a carbon emission trading program in the electricity sector. He also investigated the effects on electric utilities of the sulfur dioxide emissions-permit trading program legislated under the 1990 Amendments to the Clean Air Act, and evaluated the benefits of emission reductions resulting from the 1990 Amendments. Current research support includes the New York State Energy Research and Development Authority, the Japanese government Economic and Social Research Institute and the EPA Star Grant program (11/2003).

Cropper, Maureen L. Chair

The World Bank

Maureen L. Cropper is a Professor of Economics at the University of Maryland, a Lead Economist at the World Bank and a University Fellow at Resources for the Future. She received a B.A. in Economics from Bryn Mawr College (1969) and a Ph.D. in Economics from Cornell University (1973). Her research areas include the economics of human health, environmental, natural resource and urban issues and has focused on valuing environmental amenities (especially environmental health effects) on the discounting of future health benefits, and on the tradeoffs implicit in environmental regulations. Specific projects she has worked on have addressed topics such as valuing the health benefits of environmental programs and the study of the political economy of environmental regulation. Her recent research focuses on factors affecting deforestation in developing countries and on the externalities associated with motorization. Dr. Cropper is past president of the Association of Environmental and Resource Economists and a former chair of the Advisory Council for Clean Air Act Compliance Analysis, a subcommittee of EPA's Science Advisory Board and as Chair of the EPA SAB Ad hoc Arsenic Benefits Review Panel. She has served on the advisory boards of Resources for the Future, the Harvard Center for Risk Analysis, the Donald Bren School of the Environment and the AEI-Brookings Center on Regulation.

Goulder, Lawrence

Stanford University

Dr. Lawrence H. Goulder is the Shuzo Nishihara Professor in Environmental and Resource Economics at Stanford University. He is also a Senior Fellow of Stanford's Institute for International Studies and Institute for Economic Policy Research, a Research Associate at the National Bureau of Economic Research, and a University Fellow of Resources for the Future. He is a member of the EPA's Science Advisory Board's Environmental Economics Advisory Committee. Dr. Goulder's research examines the environmental and economic impacts of U.S. and international environmental policies. He has focused on policies to reduce emissions of "greenhouse gases" that contribute to climate change, and on "green tax reform," revamping the tax system to introduce taxes on pollution and reduce taxes on labor effort or investment. His analyses of environmental policies often employ a general equilibrium analytical framework that integrates the economy and the environment and links the activities of government, industry, and households. His work considers both the aggregate benefits and costs of various policies as well as the distribution of policy impacts across industries, income groups, and generations. Some of his work is interdisciplinary, involving collaborations with climatologists and biologists. Dr. Goulder graduated from Harvard College with an A.B. in philosophy in 1973. He obtained a master's degree in musical composition from the Ecole Normale de Musique de Paris in 1975 and earned a Ph.D. in economics from Stanford in 1982 (12/2003).

Hammitt, James

Harvard University

James K. Hammitt is Professor of Economics and Decision Sciences and Director of the Harvard Center for Risk Analysis. He holds appointments in the Department of Health Policy and Management and the Department of Environmental Health and is co-director of the Program in Environmental Science and Risk Management at the Harvard School of Public Health. His research interests include the development and application of quantitative methods of decision and risk analysis to health and environmental policy. Professor Hammitt studies the management of long-term environmental issues with important scientific uncertainties such as global climate change and stratospheric-ozone depletion, the evaluation of ancillary benefits and countervailing risks associated with risk-control measures, and the characterization of social preferences over health and environmental risks using revealed-preference and contingent-valuation methods. He holds degrees in Applied Mathematics (A.B., Sc.M.) and Public Policy (M.P.P., Ph.D.) from Harvard University. He serves as a member of the U.S. Environmental Protection Agency's Advisory Council on Clear Air Compliance Analysis and served on the American Statistical Association Committee on Energy Statistics (Advisory Committee to the U.S. Energy Information Administration). Professor Hammitt is a member of the American Economic Association, Association of Environmental and Resource Economists, European Group of Risk and Insurance Economists (Geneva Association), and the Society for Risk Analysis. Prior to coming to Harvard, he was Senior Mathematician at the RAND Corporation in Santa Monica. (11.2004).

Helfand, Gloria

University of Michigan

Dr. Helfand is Associate Professor of Environmental Economics and (for January - June 2004) Interim Associate Dean of the School of Natural Resources and Environment at the University of Michigan. Dr. Helfand received her B.A. in English Literature from Swarthmore College (1978), her A.M. in Technology and Human Affairs from Washington University in St. Louis (1981), and her Ph.D. in Agricultural and Resource Economics from the University of California at Berkeley (1988). Prior to coming to her current position in 1996, Dr. Helfand spent 6 years as Assistant Professor of Agricultural Economics and one year as Associate Professor of Agricultural and Resource Economics and Environmental Studies at the University of California at Davis. Before pursuing her Ph.D., she conducted research, analysis, and advocacy on national forest management and floodplain management issues for the Natural Resources Defense Council (1978, 1979-81), and she conducted economic and policy analysis on public lands issues, with an emphasis on national forest management, in the Economic Policy Department of The Wilderness Society (1981-83). Dr. Helfand's primary area of expertise is in environmental and resource economics. Her research interests focus on understanding the effects of different regulatory approaches to pollution policy, environmental policy analysis, and the distributional effects of environmental policy. Dr. Helfand has been an Associate Editor of the Journal of Environmental Economics and Management and presently has that position for the American Journal of Agricultural Economics and Land Economics. She has served on committees for the American Agricultural Economics Association and the Association of Environmental and Resource Economists, and she has been a reviewer for a number of academic journals and grant proposals to the USEPA, USDA, and NSF. She has served on the Environmental Economics Advisory Committee of the US EPA's Science Advisory Board (SAB) since 2001 and was a consultant to the SAB from 1998-2000. (11/2003)

Kling, Catherine

Iowa State University

Dr. Catherine Kling is a Professor of Economics at Iowa State University and Head of the Resource and Environmental Policy Division of the Center for Agricultural and Rural Development at ISU. Prior to coming to Iowa State University in 1993, she was an Associate and Assistant Professor in the Department of Agricultural Economics at the University of California, Davis. Dr. Kling has served the profession and the public sector in a variety of capacities including her current membership on the Environmental Economics Advisory Committee of EPA's Science Advisory Board, current and past service as a member of the board of directors and awards committee chair for the American Agricultural Economics Association, vice president and member of the board of directors of the Association of Environmental and Resource Economists, associate editor for the American Journal of Agricultural Economics, and the Journal of Environmental Economics and Management, as well as numerous ad hoc committees for the AAEA, AERE, and other professional associations. Dr. Kling's research addresses methods for improving non-market valuation methods and she has applied these tools to wetlands valuation, water quality, and recreational angling. She has also studied a range of theoretical and empirical issues concerning economic incentives for pollution control and is currently working on these issues in relation to non-point source pollution from agriculture. Dr. Kling holds a BBA in Business and Economics from the University of Iowa and a Ph.D. in Economics from the University of Maryland. Dr. Kling has received research funding from EPA, USDA, The Iowa Department of Natural Resources, and the California Institute for Energy Efficiency. She is also a member of executive board of the Consortium for Agricultural Soils Mitigation of Greenhouse Gases funded through a grant from USDA(11/2003).

Levinson, Arik

Georgetown University

Dr. Levinson is an Associate Professor in the Economics Department of Georgetown University, where he teaches environmental economics, public finance, and microeconomics, and is Director of Undergraduate Economic Studies. He is a Faculty Research Fellow at the National Bureau of Economic Research, is on the Editorial Council of the Journal of Environmental Economics and Management, and is a member of the American Economic Association, the Association of Environmental and Resource Economists, and the Association for Public Policy Analysis and Management. Professor Levinson's research interests include the fields of traditional public finance and environmental economics. He has studied the theoretical welfare consequences of states competing to attract manufacturers by enacting successively less stringent environmental standards (a "race to the bottom"), and measured empirically the effects of interstate differences in environmental standard stringency on manufacturer location decisions, trade, employment, and foreign direct investment. Recently, he has written theoretical and empirical papers on the relationship between countries' environmental quality and their incomes, he has studied the energy efficiency consequences of apartment leases that include monthly utility costs, and he has written about the relationship between individuals' willingness to pay for environmental quality, household income, and national income. Dr. Levinson holds a B.A. in Economics from Harvard College, and a Ph.D. in Economics from Columbia University.

Segerson, Kathleen

University of Connecticut

Dr. Kathleen Segerson is Professor and Head in the Department of Economics at the University of Connecticut. Prior to coming to the University of Connecticut, Professor Segerson was an assistant professor of Natural Resource Economics at the University of Wisconsin. She is currently a co-editor of the Ashgate Studies in Environmental and Natural Resource Economics, and a member of the editorial board of the International Yearbook of Environmental and Resource Economics and Contemporary Economic Policy. She has previously served as a co-editor and an associate editor of the American Journal of Agricultural Economics and an associate editor of the Journal of Environmental Economics and Management. She has also served as Vice-President and a member of the Board of Directors of the Association of Environmental and Resource Economists (AERE), and on several other subcommittees for AERE and the American Agricultural Economics Association (AAEA). Dr. Segerson's research focuses on the incentive effects of alternative environmental policy instruments, with particular emphasis on the application of legal rules and principles to environmental problems. Specific research areas include: the impact of legal liability for environmental damages in a variety of contexts, including groundwater contamination, hazardous waste management, and workplace accidents; land use regulation and the takings clause; voluntary approaches to environmental protection; the impacts of climate change on U.S. agriculture; and incentives to control nonpoint pollution from agriculture. Dr. Segerson received a BA degree in mathematics from Dartmouth College in 1977 and a PhD in agricultural and natural resource economics from Cornell University in 1984 (12/2003).

Sigman, Hilary

Rutgers University

Dr. Sigman is an associate professor of economics at Rutgers University in New Brunswick and a faculty research fellow of the National Bureau of Economic Research. She currently serves on the Environmental Economics Advisory Committee of the U.S. EPA's Science Advisory Board (SAB), the Editorial Council of the Journal of Environmental Economics and Management, and the Board of Directors of the Association of Environmental and Resource Economists. She has also served on the RCRA/UST Benefits, Costs, and Impacts Review Committee of the EPA SAB. Dr. Sigman was previously an assistant professor of economics at the University of California, Los Angeles. She has taught at Yale and the University of Michigan and held fellowships at Resources for the Future and the Hoover Institution. Dr. Sigman's research examines the empirical effects of environmental policies. Among other subjects, she has studied "green taxes" for hazardous and solid waste, the application of legal liability under Superfund, and transboundary water pollution. Dr. Sigman holds a B.A. in Economics and Studies in the Environment from Yale College, an M.Phil. in Economics from Cambridge University (U.K), and a Ph.D. in Economics from the Massachusetts Institute of Technology (12/2003).

Stavins, Richard

Wesleyan University

Robert N. Stavins is the Albert Pratt Professor of Business and Government, Chairman of the Environment and Natural Resources Faculty Group at the John F. Kennedy School of Government, Harvard University, and Director of the Environmental Economics Program at Harvard University. He is a University Fellow of Resources for the Future, Past Chairman of the Environmental Economics Advisory Committee of the U.S. Environmental Protection Agency's (EPA) Science Advisory Board, Director of the University-wide Environmental Economics Program at Harvard University; and a Member of: EPA's Clean Air Act Advisory Committee, the Intergovernmental Panel on Climate Change (IPCC), the Board of Directors of the Robert and Renée Belfer Center for Science and International Affairs, the Executive Committee of the Harvard University Committee on Environment (UCE), the Board of Academic Advisors of the AEI-Brookings Joint Center for Regulatory Studies. He serves on Editorial Boards of The Journal of Environmental Economics and Management, Resource and Energy Economics, Land Economics, Environmental Economics Abstracts, B.E. Journals of Economic Analysis & Policy, and Economic Issues. He is also a contributing editor of Environment, and was formerly a member of the Board of Directors of the Association of Environmental and Resource Economists. Professor Stavins' research has focused on diverse areas of environmental economics and policy, including examinations of: policy instrument choice under uncertainty; competitiveness effects of regulation; design and implementation of market-based policy instruments; diffusion of pollution-control technologies; and depletion of forested wetlands. His current research includes analyses of: technology innovation; environmental benefit valuation; political economy of policy instrument choice; and econometric estimation of carbon sequestration costs. Professor Stavins directed Project 88, a bi-partisan effort co-chaired by former Senator Timothy Wirth and the late Senator John Heinz, to develop innovative approaches to environmental and resource problems. He continues to work closely with public officials on matters of national and international environmental policy. He has been a consultant to the National Academy of Sciences, several Administrations, Members of Congress, environmental advocacy groups, the World Bank, the United Nations, the U.S. Agency for International Development, state and national governments, and private foundations and firms. Prior to coming to Harvard, Stavins was a staff economist at the Environmental Defense Fund; and before that, he managed irrigation development in the middle east, and spent four years working in agricultural extension in West Africa as a Peace Corps volunteer.

Yohe, Gary

Wesleyan University

Gary Yohe is the John E. Andrus Professor of Economics at Wesleyan University and a collaborator at the Center for Integrated Study of the Human Dimensions of Global Change at Carnegie Mellon University. He received his bachelor's degree in mathematics from the University of Pennsylvania in 1970 and his PhD in economics from Yale University in 1975. Since then he has contributed over 90 articles to the academic literature, focusing most of his attention over the past decade to climate change. His major research interests now see him applying the first principles of microeconomic analysis to decision-making under uncertainty and to exploring the tradeoff between mitigating climate change and abating its potential damage. Most recently, Dr. Yohe has been concerned with judging the vulnerability of economic, political and social systems to climate change, climate variability, and climate policy when adaptation is included in the calculus of cost accounting. These interests have lead to collaborations on coping capacity indicators with Richard Tol, on the global coherence argument for claiming a climate "fingerprint" with Camille Parmesan, an integrated assessment project for Egypt with Kenneth Strzepek, and on visioning knowledge-based global futures with Thomas Malone. All of these initiatives look across not-implausible environmental and socioeconomic scenarios to examine macro-scale and micro-scale adaptations. Yohe served as a lead author for three Chapters of the Working Group II contribution (Impacts, Adaptation, and Vulnerability) to the Third Assessment Report (the TAR) of the Intergovernmental Panel on Climate Change (the IPCC): Chapter 2 (Methods and Tools), Chapter 18 (Adaptation to Climate Change in the Context of Sustainable Development and Equity), and Chapter 19 (Synthesis). He also contributed as a lead author for Chapter 1 (Setting the Stage: Climate Change and Sustainable Development) of the contribution of Working Group III (Mitigation) to the TAR; and he has recently agreed to serve as Convening Lead Author for Chapter 21 (or perhaps 5 after the reorganization - "Uncertainties in Assessing Response Effectiveness") for the Response Options Technical Volume of the Millennium Ecosystem Assessment. He is also currently serving on the Science Advisory Committee for the Inter-American Institute and the Science Committee of the Global Analysis, Integration and Modeling Program of the IGBP.